



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

**D3589-047**  
**Job Sheet 201903**



**Part No:** D3589-047

**Job Qty:** 2 pcs

**Part Name:** Fwd Guide



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 10/16/19

**Job Tracking No:**

**Due Date:** 11/1/19

**Created By:** Marie Lajeunesse

**Type:** SOLD

**Description:**

**Note:** DWG REV C SHEET 3 IPP Rev:A 08-05-30 new issue DD verified by:ec IPP REV:B 12.07.23 AS PER REV.C DD VERF:EC

**Ship Via:**

### Bill of Materials

### Job Routing

| Op No | Operation                 | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier      |           | Sign-off |
|-------|---------------------------|-------|------------|----------|-----------|---------|--------------------------|-----------|----------|
|       |                           |       |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier    | Lead Time |          |
| 100   | Large Fab - Welded Assy-1 | 2 pcs | 11/1/19    | 11/1/19  | 0.00      | 1.25    | Large Fab - 1            |           |          |
|       |                           |       |            |          |           |         | Large Fab - 10           |           |          |
|       |                           |       |            |          |           |         | Large Fab - 2            |           |          |
|       |                           |       |            |          |           |         | Large Fab - 3            |           |          |
|       |                           |       |            |          |           |         | Large Fab - 4            |           |          |
|       |                           |       |            |          |           |         | Large Fab - 5            |           |          |
|       |                           |       |            |          |           |         | Large Fab - 6            |           |          |
|       |                           |       |            |          |           |         | Large Fab - 7            |           |          |
|       |                           |       |            |          |           |         | Large Fab - 8            |           |          |
|       |                           |       |            |          |           |         | Large Fab - 9            |           |          |
|       |                           |       |            |          |           |         | Large Fab - 11 (Various) |           |          |
|       |                           |       |            |          |           |         | Large Fab - 12           |           |          |
| 110   | QC 9                      | 2 pcs | 11/1/19    | 11/1/19  | 0.00      | 0.00    | QC 9 - 10                |           |          |
|       |                           |       |            |          |           |         | QC 9 - 18                |           |          |
|       |                           |       |            |          |           |         | QC 9 - 24                |           |          |
|       |                           |       |            |          |           |         | QC 9 - 43                |           |          |
|       |                           |       |            |          |           |         | QC 9 - 50                |           |          |
|       |                           |       |            |          |           |         | QC 9 - 9                 |           |          |
| 120   | QC 5                      | 2 pcs | 11/1/19    | 11/1/19  | 0.00      | 0.00    | QC 5 - 10                |           |          |
|       |                           |       |            |          |           |         | QC 5 - 12                |           |          |
|       |                           |       |            |          |           |         | QC 5 - 17                |           |          |
|       |                           |       |            |          |           |         | QC 5 - 18                |           |          |
|       |                           |       |            |          |           |         | QC 5 - 19                |           |          |
|       |                           |       |            |          |           |         | QC 5 - 22                |           |          |
|       |                           |       |            |          |           |         | QC 5 - 24                |           |          |
|       |                           |       |            |          |           |         | QC 5 - 3                 |           |          |
|       |                           |       |            |          |           |         | QC 5 - 43                |           |          |
|       |                           |       |            |          |           |         | QC 5 - 49                |           |          |
|       |                           |       |            |          |           |         | QC 5 - 51                |           |          |
|       |                           |       |            |          |           |         | QC 5 - 58                |           |          |



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**Container No:** S228335



**Part No:** D3589-047

**Job No:** 201903

**Serial No/Batch:** S228335

**Revision:**

**Operator:**

Plex 10/16/19 12:36 PM Dart.lajeunesse.marie

| 130 Packaging 3-1 - Stock - B4B 2 pcs                                                                                                                                                                                                                                                                                                                                                                                | 11/1/19         | 0.00 0.00    | QC 5 - 68                     |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|-------------------------------|-----------------|-------------|----------------|----------|-----------|-----------|----------|-----------------|--------------|-------------------------------|---------|---------|-------------|--------------|-------------------------------|---------|
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | QC 5 - 9                      |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | QC 5 - 50                     | CL              |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | QC 5 - 30                     |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | QC 5 - 40                     |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | QC 5 - 61                     |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | QC 5 - 81                     |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 1 - B4B         |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 2 - B4B         |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 3 - B4B         |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 4 - B4B         |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 5 - B4B         |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 6 - B4B         |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 7 - B4B         |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 8 - B4B         |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 9 - B4B         |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 10 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 11 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 12 - B4B        | CL              |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 13 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 14 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 15 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 16 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 17 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 18 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 19 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 20 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 21 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 22 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 23 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 24 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 25 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 26 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 27 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 28 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 29 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 30 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 31 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 32 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 33 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 34 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 35 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              | Packaging 3 - 36 - B4B        |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
| 140 QC 21 - SA                                                                                                                                                                                                                                                                                                                                                                                                       | 2 pcs           | 11/1/19      | 0.00 0.00                     | QC 21 - SA - 21 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              |                               | QC 21 - SA - 70 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |              |                               | QC 21 - SA - 53 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
| Part Op 100 - (Weld per dwg A/R S.S. rod Batch: <u>M138478</u> ), 1- assemble and weld as per dwg D3589 QSI004<br>Descriptions: 110 - (QC9- Inspect visual per QSI004- Fusion Welds)<br>120 - (QC5- Inspect part completeness to step on W/O)<br>130 - (Identify as per dwg & Stock Location: <u>51041</u> )<br>140 - (QC21- Final Inspection - Work Order Release)                                                  |                 |              |                               |                 |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
| <div> <div>Job BOM</div> <table> <tr> <th>Part / Item</th><th>Component Name</th><th>Quantity</th><th>Operation</th><th>Container</th></tr> <tr> <td>D3589-17</td><td>Fwd Guide Plate</td><td>2 pcs (1 ea)</td><td>100-Large Fab - Welded Assy-1</td><td>5194695</td></tr> <tr> <td>D3589-5</td><td>Latch Guide</td><td>2 pcs (1 ea)</td><td>100-Large Fab - Welded Assy-1</td><td>5177097</td></tr> </table> </div> |                 |              |                               |                 | Part / Item | Component Name | Quantity | Operation | Container | D3589-17 | Fwd Guide Plate | 2 pcs (1 ea) | 100-Large Fab - Welded Assy-1 | 5194695 | D3589-5 | Latch Guide | 2 pcs (1 ea) | 100-Large Fab - Welded Assy-1 | 5177097 |
| Part / Item                                                                                                                                                                                                                                                                                                                                                                                                          | Component Name  | Quantity     | Operation                     | Container       |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
| D3589-17                                                                                                                                                                                                                                                                                                                                                                                                             | Fwd Guide Plate | 2 pcs (1 ea) | 100-Large Fab - Welded Assy-1 | 5194695         |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |
| D3589-5                                                                                                                                                                                                                                                                                                                                                                                                              | Latch Guide     | 2 pcs (1 ea) | 100-Large Fab - Welded Assy-1 | 5177097         |             |                |          |           |           |          |                 |              |                               |         |         |             |              |                               |         |

| Job Allocations                    |                |          |           |           |
|------------------------------------|----------------|----------|-----------|-----------|
| Operation                          | Component Part | Required | Inventory | Allocated |
| 100-Large Fab - Welded Assy-1      | D3589-17       | 2        | 12        | 0         |
|                                    | D3589-5        | 2        | 9         | 0         |
| Part Specifications                |                |          |           |           |
| Specifications could not be found. |                |          |           |           |

Plex 10/16/19 12:36 PM Dart.lajeunesse.marie

Entered: \_\_\_\_\_ Date: \_\_\_\_\_

# WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐



|                                                                                                                                                                                                                                                                                                                                                                |                   |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Job: _____                                                                                                                                                                                                                                                                                                                                                     |                   | DISPOSITION                                                                                                                                                                                                                                                                                                                  |  | DEPARTMENT/PROCESS                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Part No. _____                                                                                                                                                                                                                                                                                                                                                 |                   | Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/>                                                                                                                                                                                                                      |  | Cross tube <input type="checkbox"/><br>Small Fab <input type="checkbox"/><br>Finishing <input type="checkbox"/><br>Eng. (Non-AW) <input type="checkbox"/><br>Prod. Eng. Coord. <input type="checkbox"/><br>Rec/Store/Packaging <input type="checkbox"/><br>Engineering <input type="checkbox"/><br>Water Jet <input type="checkbox"/><br>Supplier <input type="checkbox"/><br>Quality <input type="checkbox"/> |  |
| Date: _____                                                                                                                                                                                                                                                                                                                                                    | Sequence #: _____ | QTY Affected: _____                                                                                                                                                                                                                                                                                                          |  | MRB (QS1042)                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                               |                   | Disposition                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                                                                                                                                                                                                |                   |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                                                                                                                                                                                                |                   |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                                                                                                                                                                                                |                   |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Root Cause                                                                                                                                                                                                                                                                                                                                                     |                   | FAULT CATEGORY                                                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Operator <input type="checkbox"/><br>Manufacturing Process <input type="checkbox"/><br>Equip/Tooling <input type="checkbox"/><br>Handling/Preservation <input type="checkbox"/><br>Material <input type="checkbox"/><br>Product Improvement <input type="checkbox"/><br>Process Improvement <input type="checkbox"/><br>Human Factors <input type="checkbox"/> |                   | Pressure/Forced <input type="checkbox"/><br>Bending <input type="checkbox"/><br>Crushing <input type="checkbox"/><br>Cracks <input type="checkbox"/><br>Crimp/Kink/Ripple/Wave/Twist <input type="checkbox"/><br>Marks/Chatter <input type="checkbox"/><br>Mislabeled <input type="checkbox"/><br>Other/Details: _____       |  |                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                                                                                                                                                                                                |                   | Contamination <input type="checkbox"/><br>Misaligned/off center <input type="checkbox"/><br>BOM/Route <input type="checkbox"/><br>Broken/Damage/Defect <input type="checkbox"/><br>Incomplete/Unclear Instructions <input type="checkbox"/><br>Drill Holes <input type="checkbox"/><br>Fit/Function <input type="checkbox"/> |  |                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                                                                                                                                                                                                |                   | Power Loss/Surge <input type="checkbox"/><br>Folio/Program <input type="checkbox"/><br>Grain Direction <input type="checkbox"/><br>Weld <input type="checkbox"/><br>Wrong Stock Pulled <input type="checkbox"/><br>Out of Sequence <input type="checkbox"/><br>Off-set/Set-up <input type="checkbox"/>                       |  |                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                                                                                                                                                                                                                                                                                                                                                |                   | Positioned Wrong <input type="checkbox"/><br>Outside Tolerance <input type="checkbox"/><br>Drawing <input type="checkbox"/><br>Finish <input type="checkbox"/><br>Part Lost/Missing <input type="checkbox"/><br>Misread <input type="checkbox"/>                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                |  |